

LAKE: BRACKETT L (VLMP SCW)
TOWN: WESTON
COUNTY: AROOSTOOK

MIDAS: 1068
TRUE BASIN: 1
SAMPLE STATION: 1

WHOLE LAKE INFORMATION

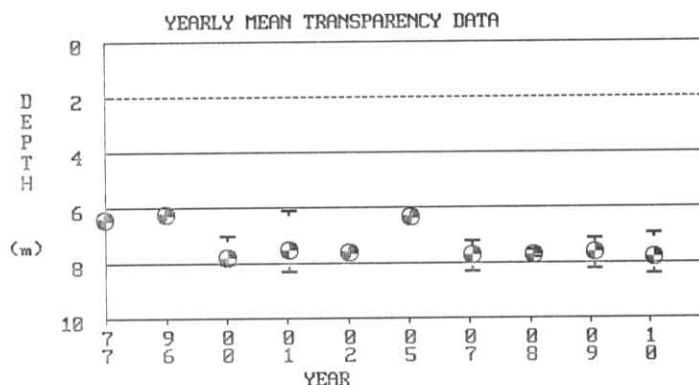
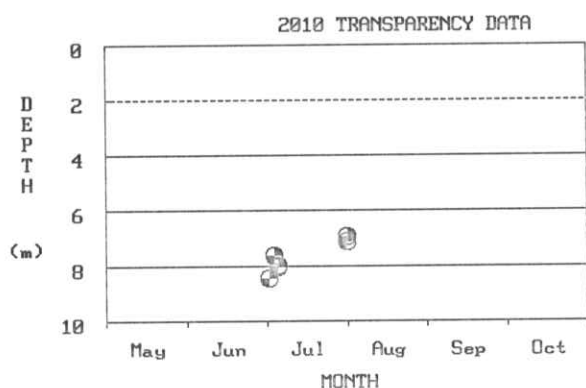
MAX. DEPTH: 8 m. (25 ft.)
MEAN DEPTH: 5 m. (15 ft.)
DELORME ATLAS #: 45
USGS QUAD: DANFORTH
IFW REGION F: Penobscot (Enfield)
IFW FISH. MANAGMENT: Warmwater

TRUE BASIN CHARACTERISTICS

SURFACE AREA: 229.0 ha. (565.9 a.)
FLUSHING RATE: 1.19 flushes/yr.
VOLUME: 9513420.0 cu. m. (7717 ac.-ft.)
DIRECT DRAINAGE AREA: 8.25 sq. km. (3.19 sq. mi.)

PLEASE NOTE THE FOLLOWING: The SAMPLE STATION # refers to the location sampled. The term TRUE BASIN is used to define areas within a lake that are separated by shallow reefs or shoals and therefore function as separate lakes. There are approximately 50 lakes in the state that have more than 1 True Basin. True Basin Characteristics are now being included in the first section of these reports to enable users of the Phosphorous Loading Methodology to better evaluate the data. If there is no data for a particular True Basin, True Basin Characteristics must be obtained from the DEP. BRACKETT L has 1 True Basin(s).

SECCHI DISK TRANSPARENCY GRAPHS:



Note: 2010 graphs may indicate multiple readings taken on a given day.

SUMMARY OF CHEMICAL AND TROPHIC STATE PARAMETERS:

[* indicates that Secchi disk was visible at bottom of lake (or one reading used in calculation was visible)].

YEAR	MEAN COLOR	MEAN pH	MEAN ALK	MEAN COND.	TOTAL PHOS. MEANS (ppb)				SECCHI DISK (m.)				CHLOROPHYLL A (ppb)			TROPHIC STATE INDICES			
	(SPU)		(mg/l)	(uS)	EPI	SURF	BOT.	PRO.	MIN.	MEAN	MAX.	N	MIN.	MEAN	MAX.	EPI PHOS			
				/cm)	CORE	GRAB	GRAB	GRAB								C	G	SEC	CHL
1977	15	6.90	8.0	34	-	-	-	7	6.4*	6.4*	6.4*	1	1.8	1.8	1.8	-	-	-	-
1996	6	-	9.5	36	8	-	-	12	6.2	6.2	6.2	1	1.8	1.8	1.8	-	-	-	-
2000	-	-	-	-	-	-	-	-	7.0	7.8	8.0	3	-	-	-	-	-	-	-
2001	-	-	-	-	-	-	-	-	6.1	7.5	8.3	3	-	-	-	-	-	-	-
2002	8	-	12.0	42	4	-	-	-	7.6*	7.6*	7.6*	1	1.4	2.9	4.4	-	-	-	-
2005	5	7.39	9.9	42	-	-	-	-	6.3	6.3	6.3	1	1.7	1.7	1.7	-	-	-	-
2007	-	-	-	-	-	-	-	-	7.2	7.7	8.3	3	-	-	-	-	-	-	-
2008	-	-	-	-	-	-	-	-	7.5	7.7	7.8	3	-	-	-	-	-	-	-
2009	-	-	-	-	-	-	5	-	7.1	7.6	8.2	4	-	-	-	-	-	-	-
2010	-	-	-	-	-	-	-	-	6.9	7.8	8.4	1	-	-	-	-	-	-	-
SUMMARY:	9	7.08	9.9	39	6	5	12	7	6.1*	7.3*	8.4*	10	1.4	2.1	4.4	-	-	-	-

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LATE SUMMER TEMPERATURE / DISSOLVED OXYGEN PROFILES:

DEPTH	SAMPLE DATE							
	09/15/77		08/20/96		08/22/02		08/08/05	
m	°C	ppm	°C	ppm	°C	ppm	°C	ppm
0.0	15.0	9.3	21.8	8.5	23.7	8.2	-	-
1.0	15.0	9.1	21.8	8.6	23.7	8.3	23.8	9.0
2.0	15.0	9.0	21.2	8.6	23.7	8.7	23.3	9.0
3.0	15.0	8.9	21.1	8.6	23.7	9.1	23.1	9.0
4.0	15.0	8.8	21.0	8.4	23.7	9.2	22.7	9.0
5.0	15.0	8.8	21.0	8.3	23.7	9.7	22.6	9.0
6.0	15.0	8.8	21.0	8.0	23.6	9.7	22.4	9.0
7.0	15.0	8.6	20.0	4.8	23.3	9.6	22.2	8.8
8.0	-	-	18.8	0.2	-	-	16.7	3.4
9.0	-	-	-	-	-	-	14.9	2.4
10.0	-	-	-	-	-	-	13.5	0.4

WATER QUALITY SUMMARY

BRACKETT LAKE, WESTON

MIDAS: 1068, Sample Station # 1

The Maine Department of Environmental Protection (ME-DEP) and the Volunteer Lake Monitoring Program (VLMP) have collaborated in the collection of lake data to evaluate water quality, track algal blooms, and determine water quality trends. This dataset does not include bacteria, mercury, or nutrients other than phosphorus.

Water quality monitoring data for Brackett Lake were collected during five years between 1977 and 2002. Chemical information was collected during four years in addition to Secchi Disk Transparencies (SDT). In summary, the water quality of Brackett Lake is considered above average based on measures of SDT, total phosphorus (TP), and Chlorophyll-a (Chla). The potential for nuisance algal blooms on Brackett Lake is low.

Water Quality Measures: Brackett Lake is a non-colored lake (color about 9 SPU) with an average SDT of 7.2 m (23.4 ft). However, the lake may be slightly clearer than this, since sometimes the Secchi disk hits bottom. The range of water column TP for Brackett Lake was 4 to 6 parts per billion (ppb). Chla values were low, between 1.4 and 4.4 ppb. Late summer dissolved oxygen (DO) profiles show little DO depletion in bottom waters of the lake. Since the lake is too shallow to thermally stratify, the potential for phosphorus to leave the bottom sediments and become available to algae in the water column (internal loading) is low.

Brackett Lake is managed by Maine Department of Inland Fisheries and Wildlife (MDIFW) (Region F) as a warm-water fishery.

See ME-DEP Explanation of Lake Water Quality Monitoring Report for measured variable explanations. Additional lake information can be found on the Internet at <http://www.lakesofmaine.org/> and/or <http://www.maine.gov/dep/blwq/lake.htm>, or telephone the ME-DEP at 207-287-3901 or the VLMP at 207-783-7733.

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